

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior version, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-9 (canceled).

10. (New) A method for controlling a cooling system, comprising:

determining a desired coolant temperature at least as a function of a desired component temperature.

11. (New) The method of claim 10, wherein a temperature difference is subtracted from the desired component temperature in order to obtain the desired coolant temperature.

12. (New) The method of claim 10, wherein a heat input of a driving engine included in the cooling system is taken into consideration in determining the desired coolant temperature.

13. (New) The method of claim 12, wherein an energy consumption of the driving engine is taken into consideration in determining the desired coolant temperature.

14. (New) The method of claim 10, wherein a coolant flow is taken into consideration in determining the desired coolant temperature.

15. (New) The method of claim 11, further comprising:

providing a family of characteristics, wherein the temperature difference is derived from the family of characteristics, a coolant flow, and an energy consumption.

16. (New) The method of claim 15, wherein the desired component temperature depends on an operating point of the driving engine contained in the cooling system.

17. (New) The method of claim 16, wherein the desired component temperature depends on at least one of a speed and a torque of the driving engine.

18. (New) The method of claim 10, further comprising:

providing a regulator to determine a correction temperature which is used to correct the desired coolant temperature, the correction temperature being determined from the desired component temperature and an actual component temperature measured by a temperature sensor.